

**CHEMISTRY PAPER
CLASS XII**

All expected 5-mark questions

TIME: 30 minutes

MARKS: 25

1. Explain the mechanism for rust. (5)
 2. How does DNA replicate? Give the mechanism of replication in detail. How is the process responsible for preservation of heredity, explain in detail.? (5)
 3. Give detailed description of the extraction of ALUMINIUM. (5)
 4. (a) Give the reaction of lead storage battery during the time of charging and discharging of cell.
(b) A galvanic cell consists of a metallic zinc plate immersed in 0.1M $\text{Zn}(\text{NO}_3)_2$ and metallic plate of lead in 0.2M $\text{Pb}(\text{NO}_3)_2$ solution. Calculate the emf of cell. Given $E^\circ \text{Zn} | \text{Zn}^{2+} = 0.76\text{V}$ &
 $\text{Pb} | \text{Pb}^{2+} = 0.13\text{V}$.
(c) Draw a neat labelled diagram of a solid state cell.
 5. How is potassium di chromate manufactured? (5)
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